

(FILE 'HOME' ENTERED AT 10:16:12 ON 11 MAY 2004)

FILE 'REGISTRY' ENTERED AT 10:16:32 ON 11 MAY 2004

E 6-HYDROXY-2,5,7,8-TETRAMETHYLCHROMAN-2-CARBOXYLIC ACID/CN

L1 1 S E3

FILE 'CAPLUS' ENTERED AT 10:17:14 ON 11 MAY 2004

FILE 'REGISTRY' ENTERED AT 10:17:20 ON 11 MAY 2004

SET SMARTSELECT ON

L2 SEL L1 1- CHEM : 8 TERMS

SET SMARTSELECT OFF

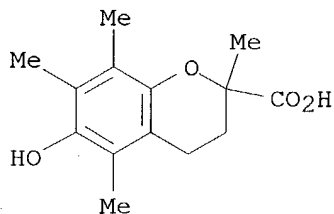
FILE 'CAPLUS' ENTERED AT 10:17:21 ON 11 MAY 2004

L3 1703 S L2

L4 487 S L3 AND (ASCORBIC OR ASCORBATE)

L5 41 S L4 AND (RADIAT? OR IRRADIAT?)

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 53188-07-1 REGISTRY
 CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2H-1-Benzopyran-2-carboxylic acid, 3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-, (.+-.)-
 OTHER NAMES:
 CN (.+-.)-6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid
 CN (.+-.)-Trolox
 CN (R,S)-6-Hydroxy-2,5,7,8-tetramethyl-2-chromanecarboxylic acid
 CN **6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid**
 CN Trolox
 CN Trolox C
 FS 3D CONCORD
 DR 56305-04-5
 MF C14 H18 O4
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

944 REFERENCES IN FILE CA (1907 TO DATE)
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 950 REFERENCES IN FILE CAPLUS (1907 TO DATE)

LI ANSWER 44 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:464724 CAPLUS
 DN 115:64724
 ED Entered STN: 23 Aug 1991
 TI **Free radical** scavenging activity of **carnosine**
 AU Salim-Hanna, Marta; Lissi, Eduardo; Videla, Luis A.
 CS Fac. Sci., Univ. Santiago, Santiago, Chile
 SO Free Radical Research Communications (1991), 14(4), 263-70
 CODEN: FRRCEX; ISSN: 8755-0199
 DT Journal
 LA English
 CC 1-12 (Pharmacology)
 AB The capacity of **carnosine** to decrease **free radical**-induced damage was evaluated using the oxidn. of brain homogenates, 2,2'-azobis-2-amidinopropane-induced oxidn. of erythrocyte ghost membranes, radiation-induced inactivation of horseradish peroxidase, and 2,2'-azobis-2-amidinopropane-induced inactivation of lysozyme. Carnosine up to 17 mM did not protect any lipid peroxidn. system, as assayed by the oxygen uptake rate. Carnosine reduced the intensity of the visible luminescence emitted apparently due to a dark decompn. of the luminescent intermediates. **Carnosine** protected horseradish peroxidase and lysozyme from **free radical**-mediated inactivation. The mean carnosine concns. required to inhibit the inactivation by 50% were 0.13 and 0.6 mM for horseradish peroxidase and lysozyme, resp.
 ST carnosine scavenger oxygen radical
 IT 3352-57-6, Hydroxyl, biological studies 7782-44-7D, Oxygen, radicals
 RL: BIOL (Biological study)
 (carnosine scavenging of)
 IT 71-00-1, L-Histidine, biological studies 107-95-9, .beta.-Alanine
 305-84-0, Carnosine
 RL: PRP (Properties)
 (oxygen radical scavenging effects of)